

FIG. 2

09816123 032704
T02280 6219T960

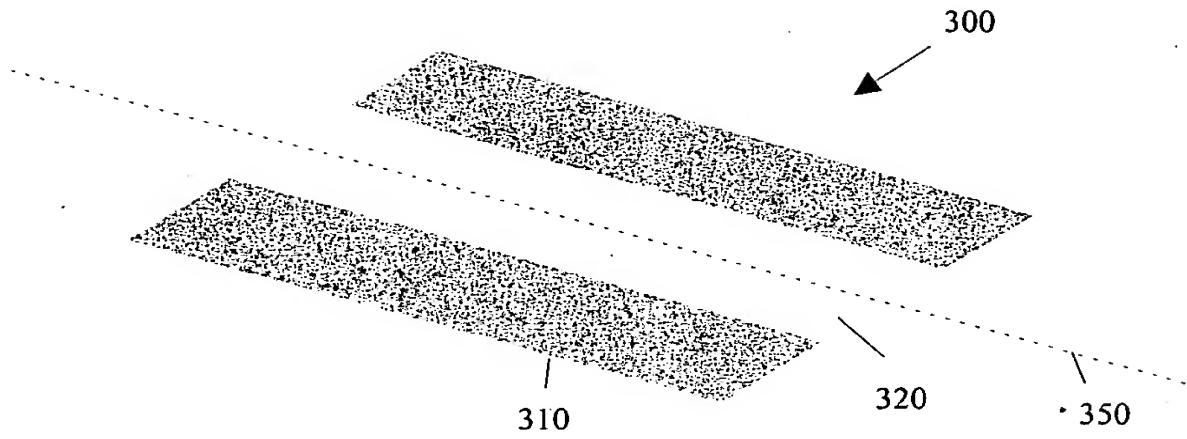


FIG. 3

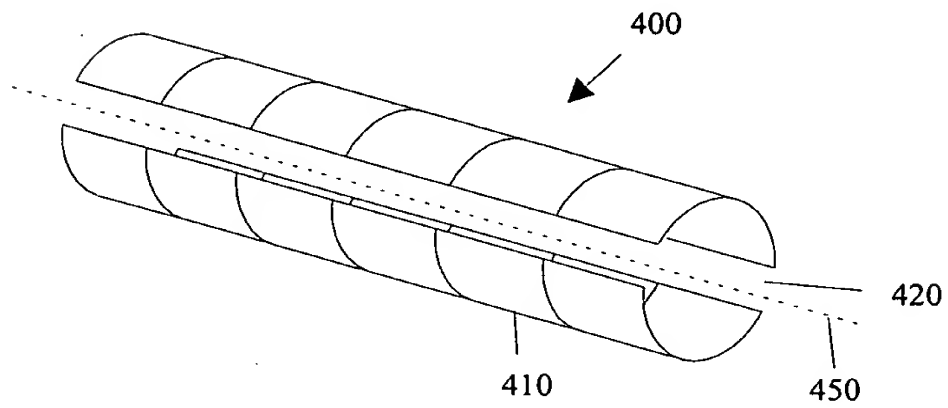


FIG. 4

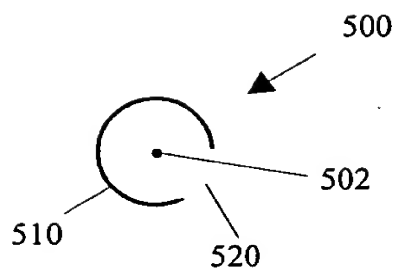


FIG. 5

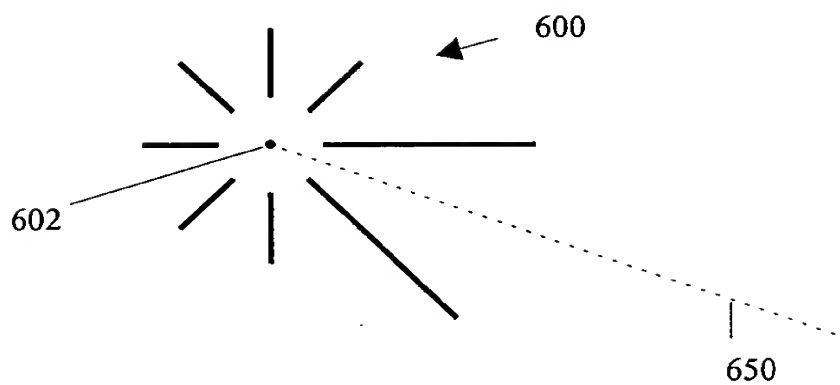
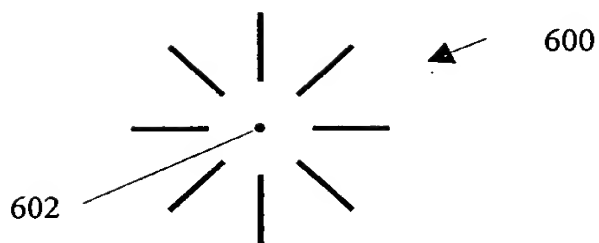


FIG. 6

09010103-032701

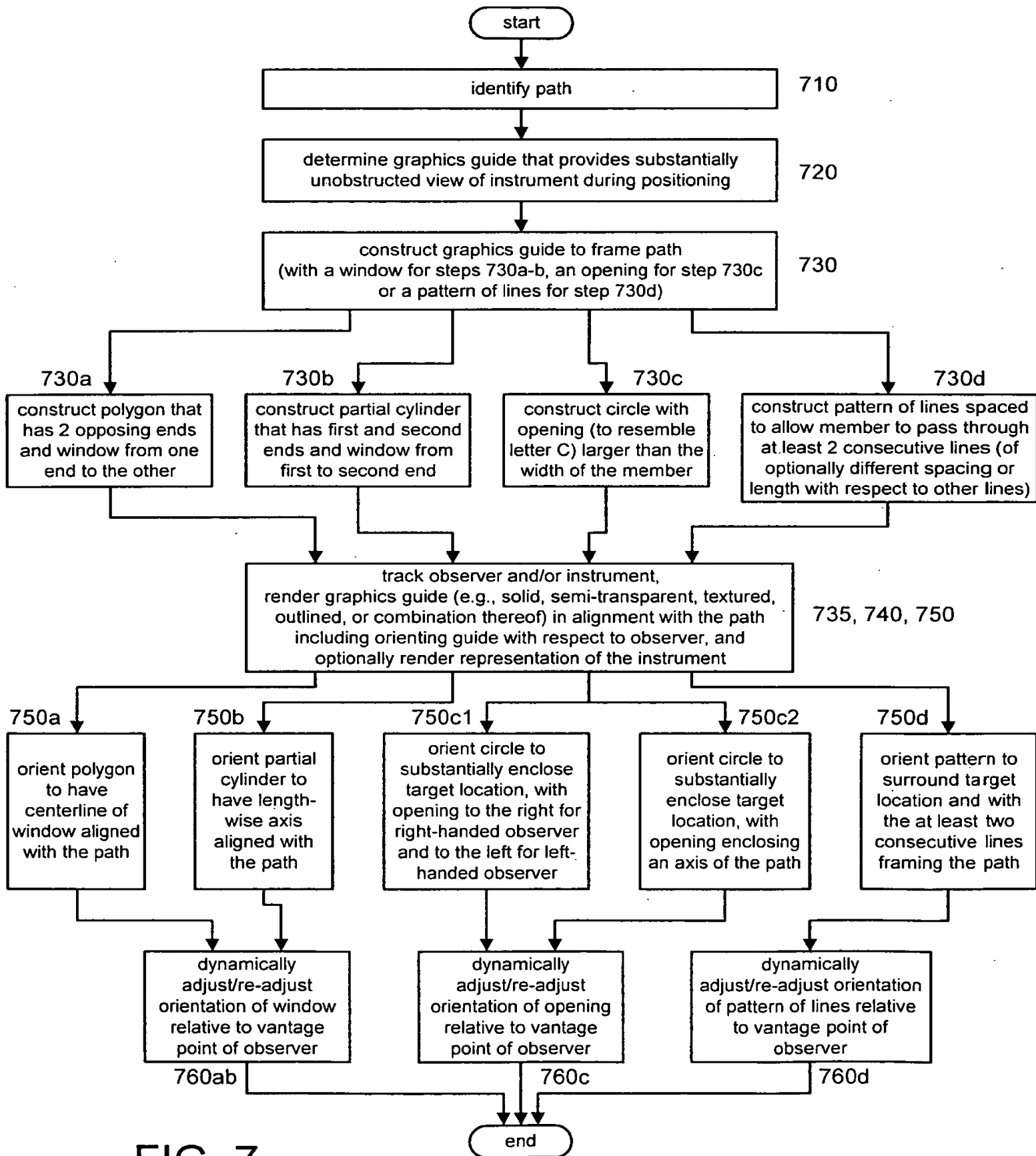


FIG. 7

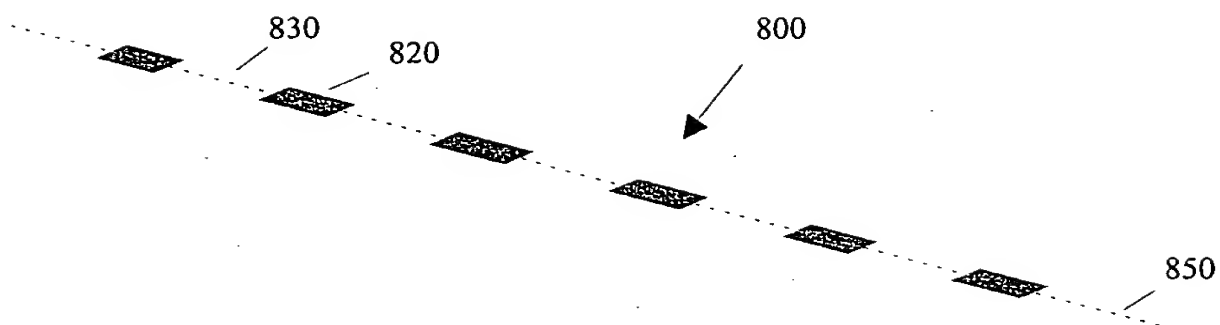


FIG. 8

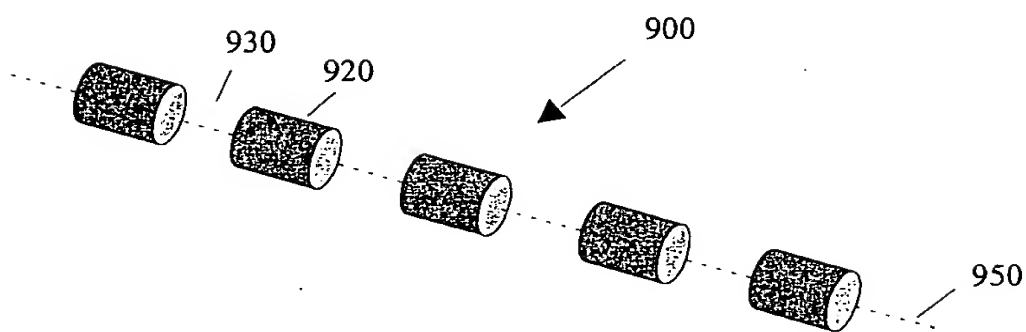


FIG. 9

0501010123.032704

034123 032704
10/22/00 22:01:00

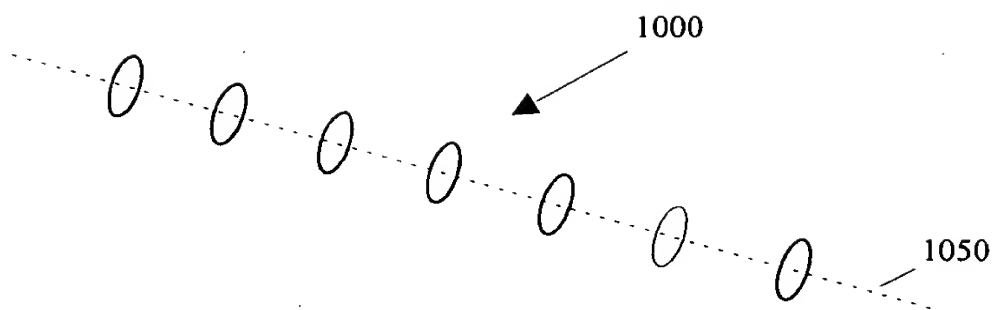


FIG. 10

```
graph TD; Start([start]) --> 1102[determine a graphics guide for positioning an instrument]; 1102 --> 1104[render the guide such that an appearance of a portion(s) of the guide is modulated with respect to space and/or time]; 1104 --> 1104a[1104a: vary a transparency of the portion(s) with respect to other portions to provide a substantially unobstructed view through the portion(s) to the instrument (or part thereof)]; 1104 --> 1104b[1104b: vary a transparency of the portion(s) during pre-defined time intervals to provide a substantially unobstructed view through the portion(s) to the instrument (or part thereof) during the pre-defined time intervals]; 1104 --> 1104c[1104c: sequentially vary a transparency of portions (e.g., consecutive or non-consecutive) during pre-defined time interval(s) to provide a substantially unobstructed view through each of the portions to the instrument (or part thereof) as the transparency is varied]; 1104a --> End([end]); 1104b --> End; 1104c --> End;
```

The flowchart illustrates a method for displaying a graphics guide for positioning an instrument. It begins with a "start" terminal, leading to step 1102: "determine a graphics guide for positioning an instrument". This step leads to step 1104: "render the guide such that an appearance of a portion(s) of the guide is modulated with respect to space and/or time". From step 1104, the process branches into three parallel paths: 1104a, 1104b, and 1104c. Path 1104a involves varying the transparency of the portion(s) with respect to other portions to provide a substantially unobstructed view through the portion(s) to the instrument (or part thereof). Path 1104b involves varying the transparency of the portion(s) during pre-defined time intervals to provide a substantially unobstructed view through the portion(s) to the instrument (or part thereof) during the pre-defined time intervals. Path 1104c involves sequentially varying a transparency of portions (e.g., consecutive or non-consecutive) during pre-defined time interval(s) to provide a substantially unobstructed view through each of the portions to the instrument (or part thereof) as the transparency is varied. All three paths converge at an "end" terminal.

FIG. 11A

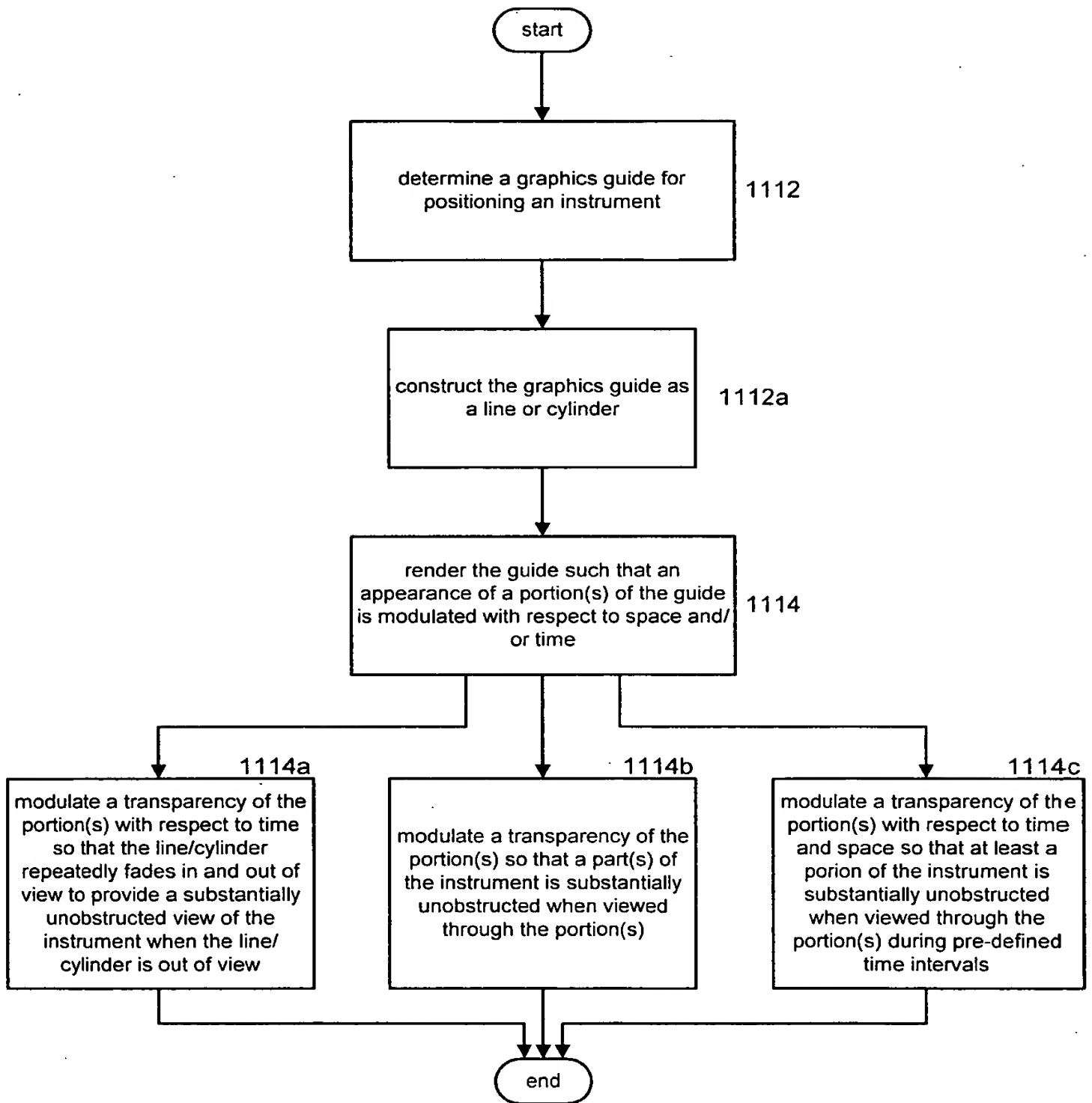


FIG. 11B

Figure 1 is a schematic diagram of the experimental setup. It shows a laser beam (1200) directed at a sample (1200a) and a detector (1200b). The laser beam is represented by a line with an arrow pointing towards the sample. The sample is a rectangular block. The detector is a small circle. The labels 1200, 1200a, and 1200b are placed near their respective components.

FIG. 12

09010423.032703

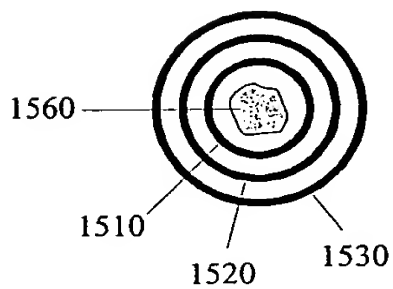
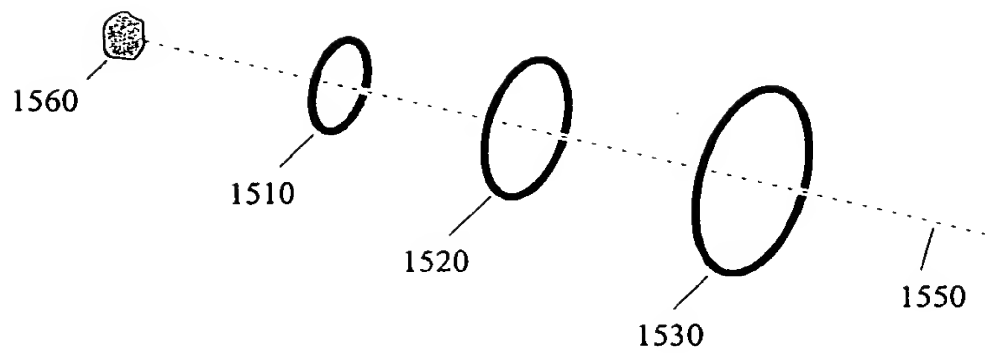


FIG. 15

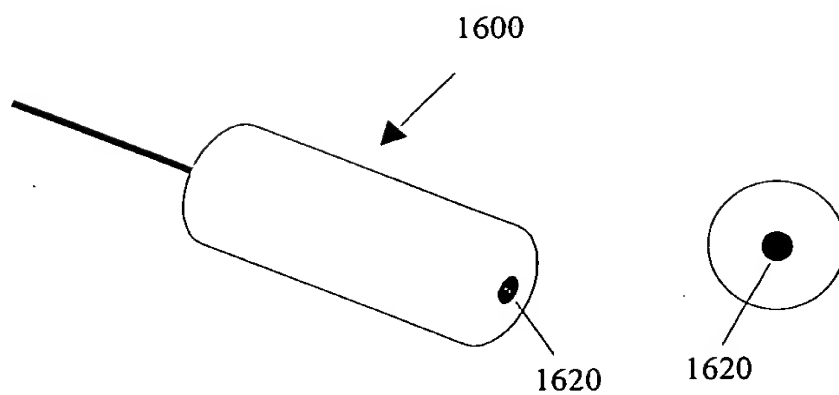


FIG. 16

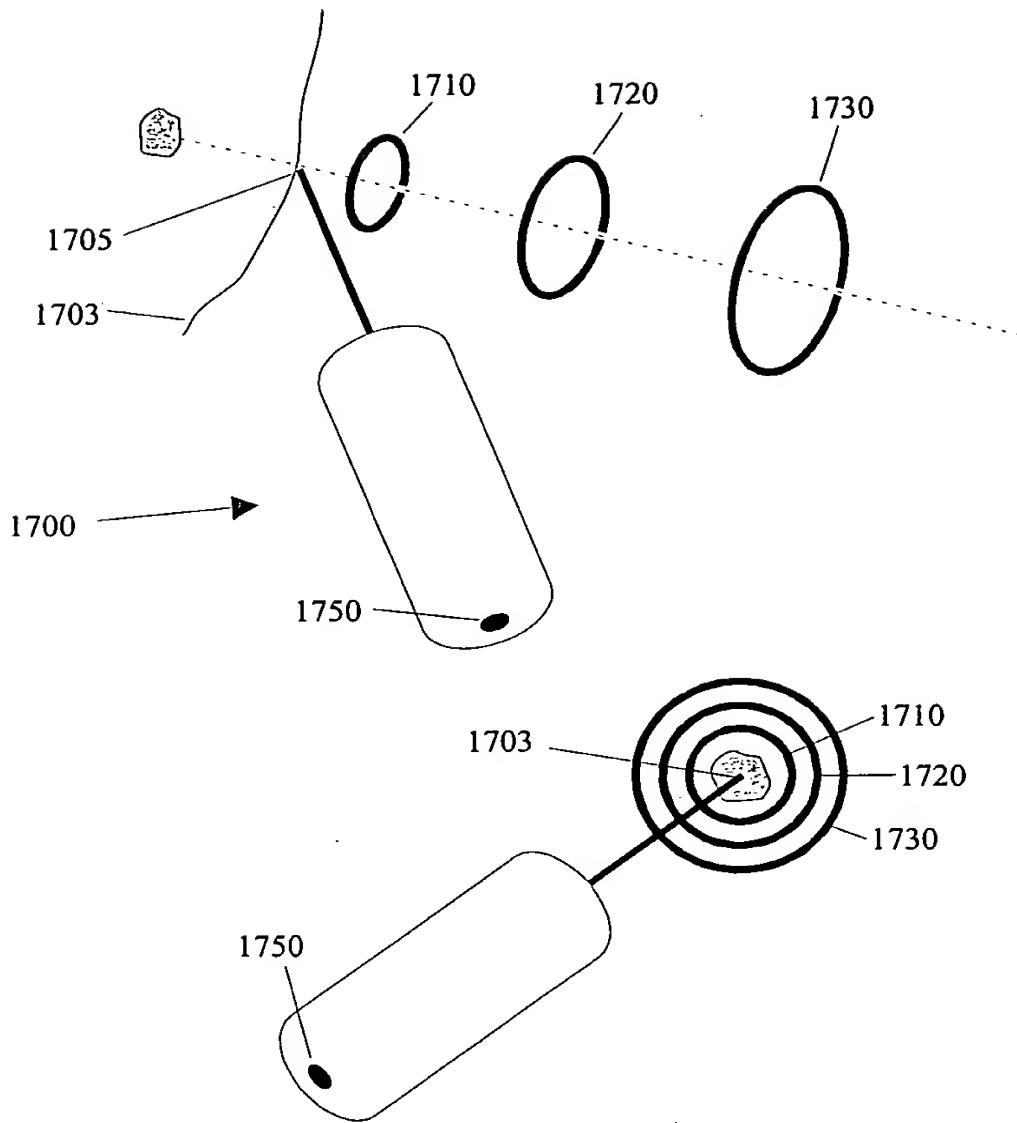


FIG. 17A

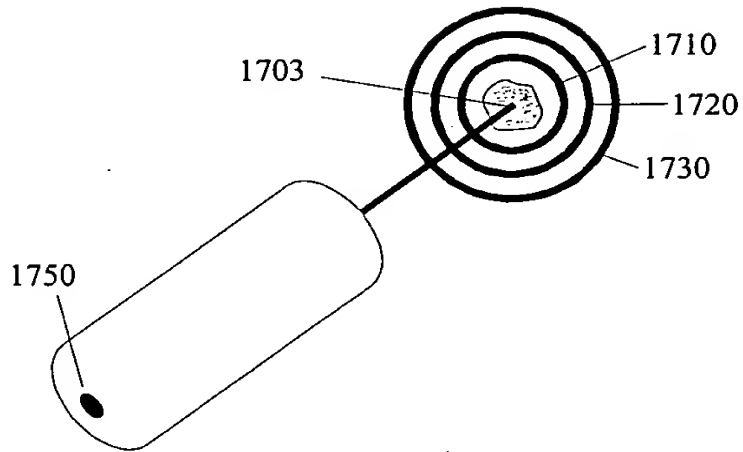


FIG. 17B

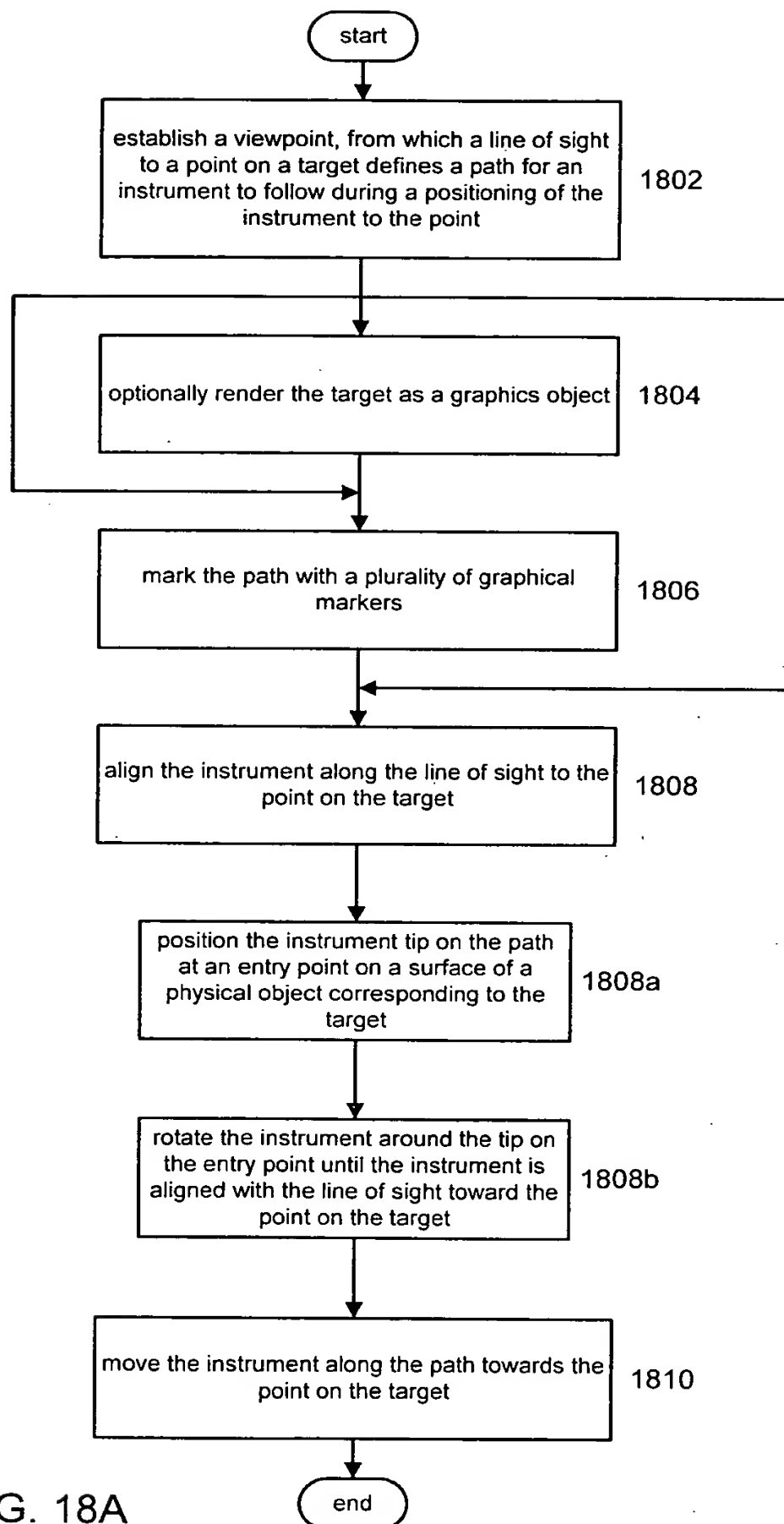


FIG. 18A

FIG. 18B

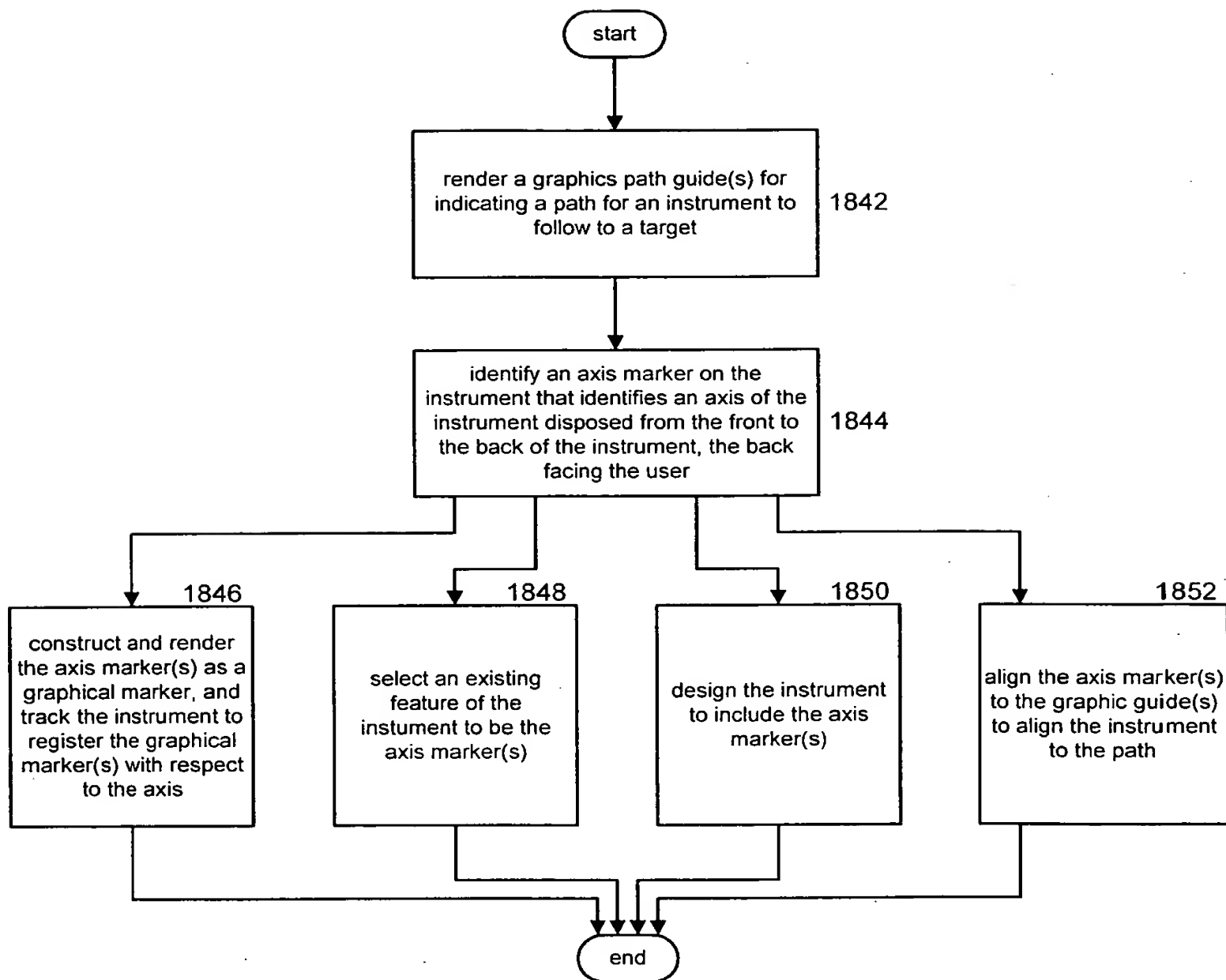
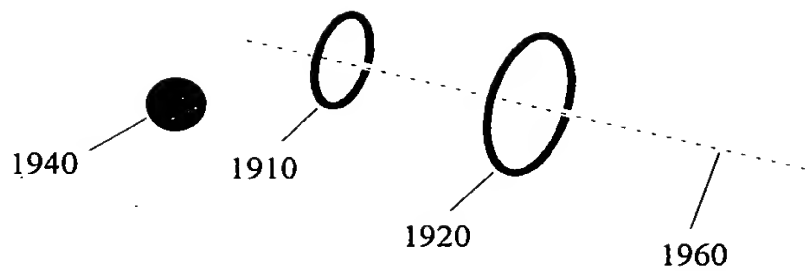


FIG. 18B

05010123 032701

not aligned



aligned

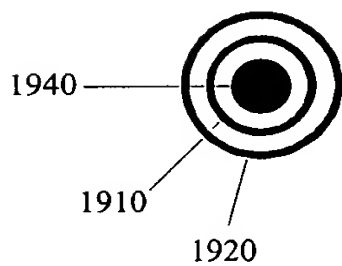
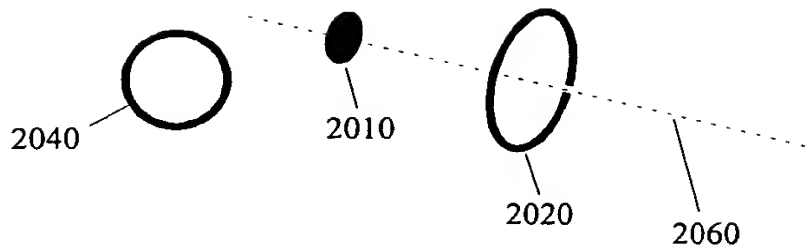


FIG. 19

not aligned



aligned

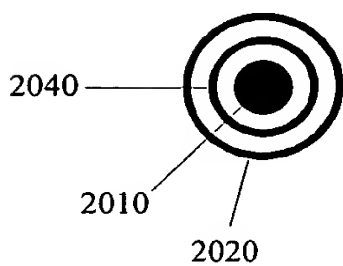
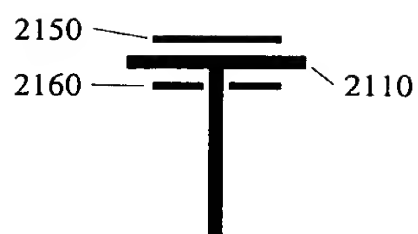


FIG. 20

target depth not yet reached



taget depth reached

FIG. 21

00010423, 032704

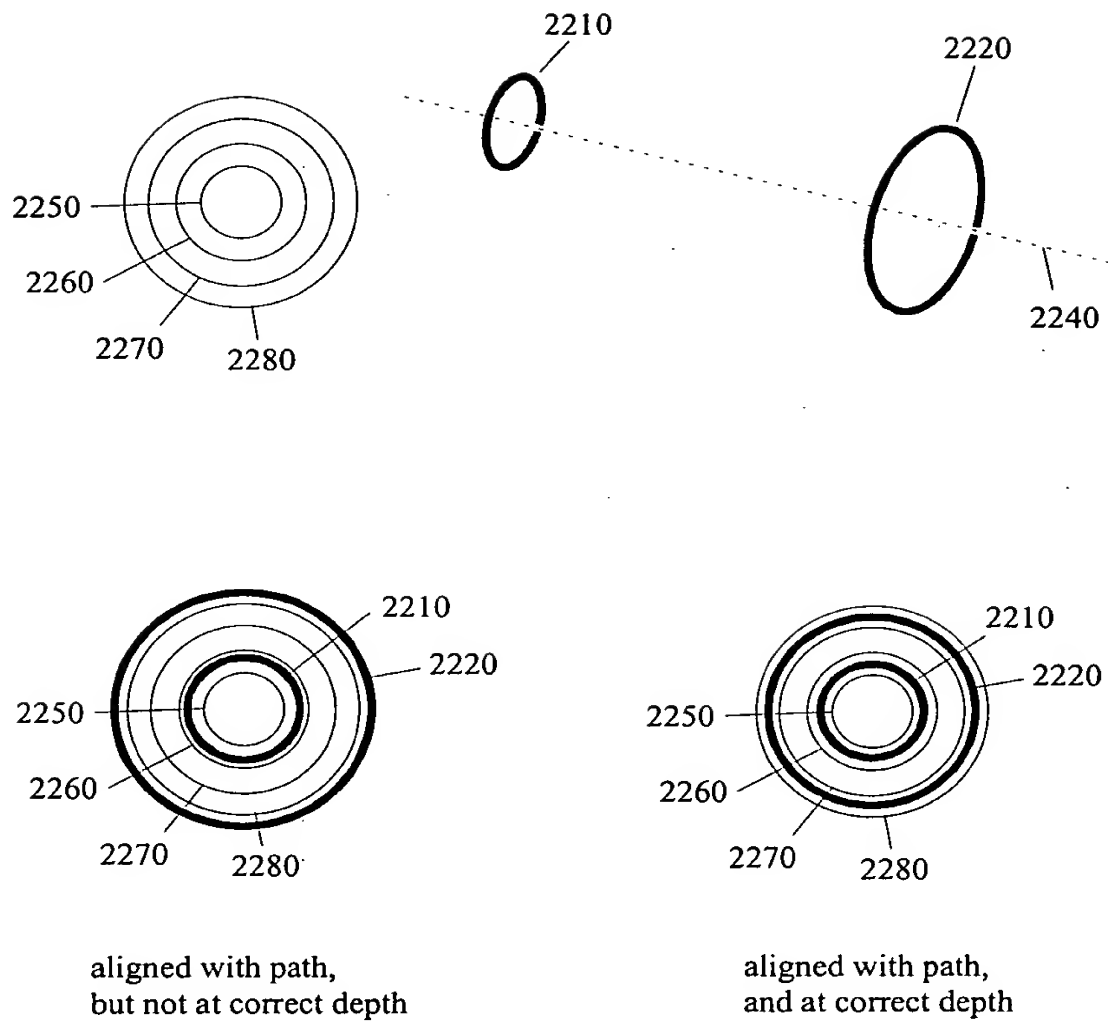


FIG. 22

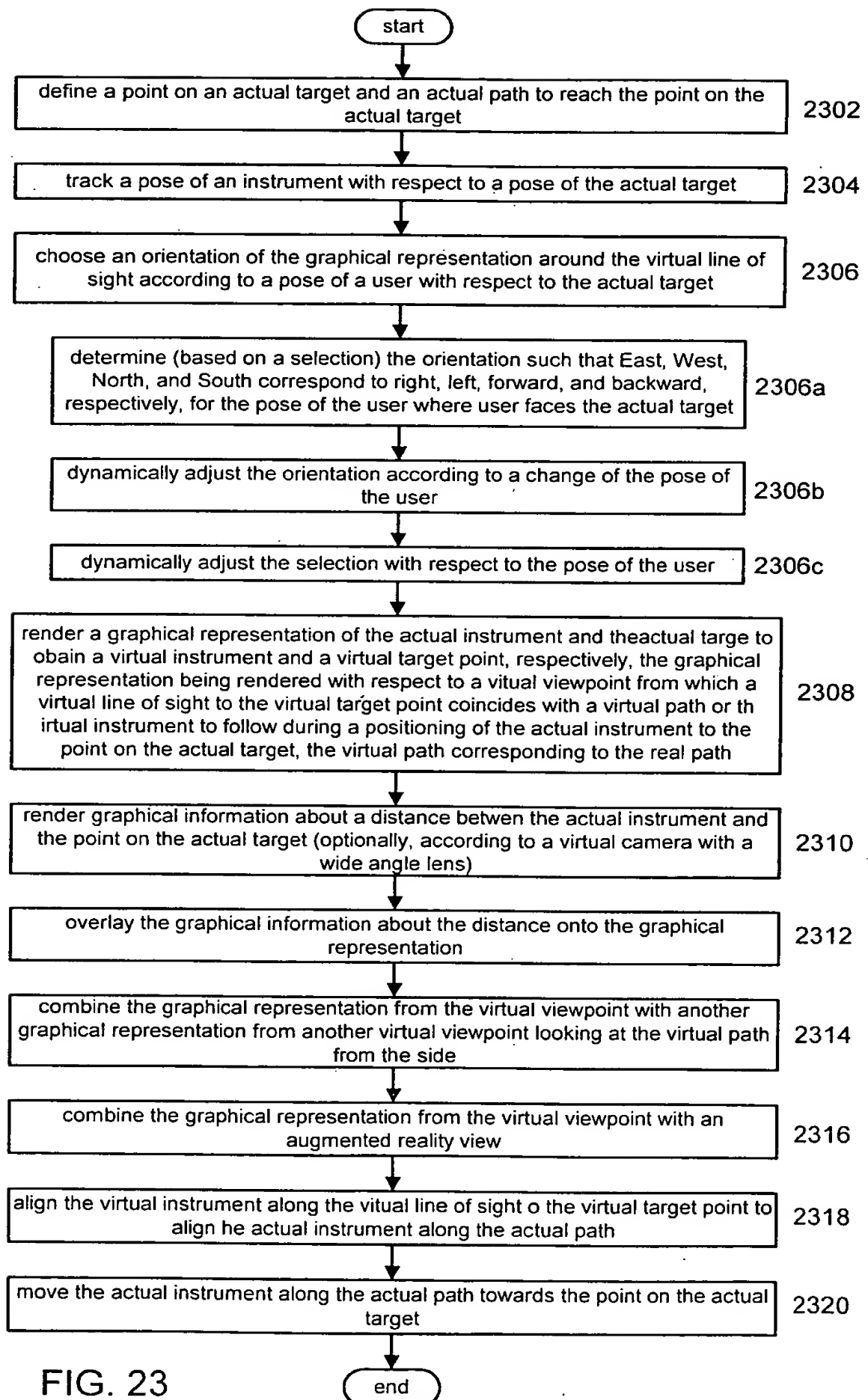


FIG. 23

Figure 2 is a schematic diagram showing a grid of curved lines. A point, labeled 2420, is located to the left of the grid. A line, labeled 2400, points to one of the curved lines in the grid.

Figure 25 is a perspective view of a segmented surface 2500. The surface is divided by a dashed line 2520 into two regions, 2510 and 2520. The surface is composed of four rectangular segments with a textured pattern. The segments are arranged in two pairs, one pair in each region. The segments are labeled 2500, 2510, and 2520.

FIG. 25

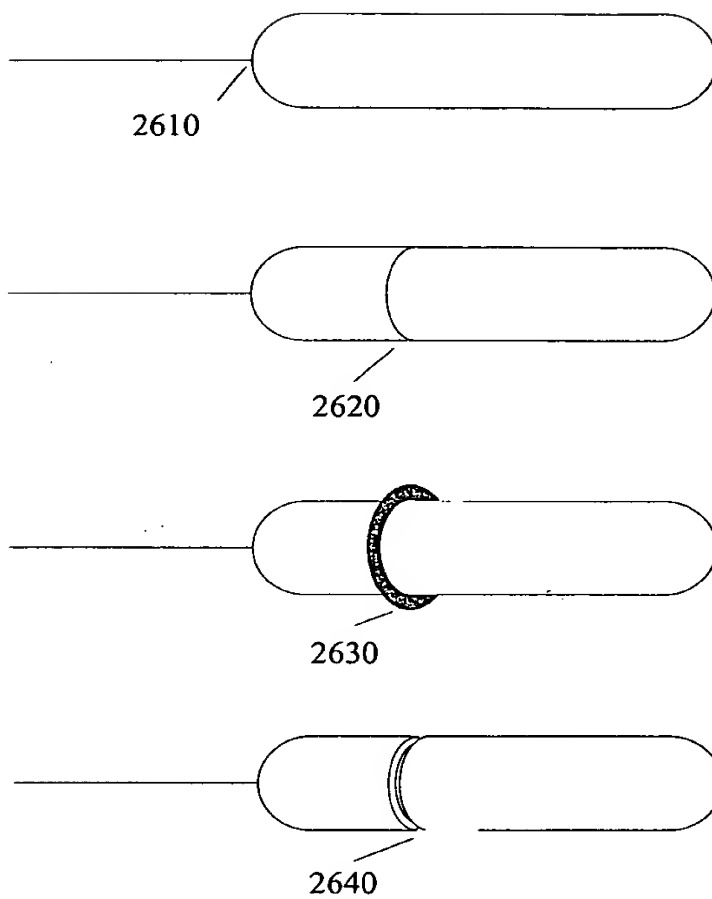


FIG. 26

FIG. 27

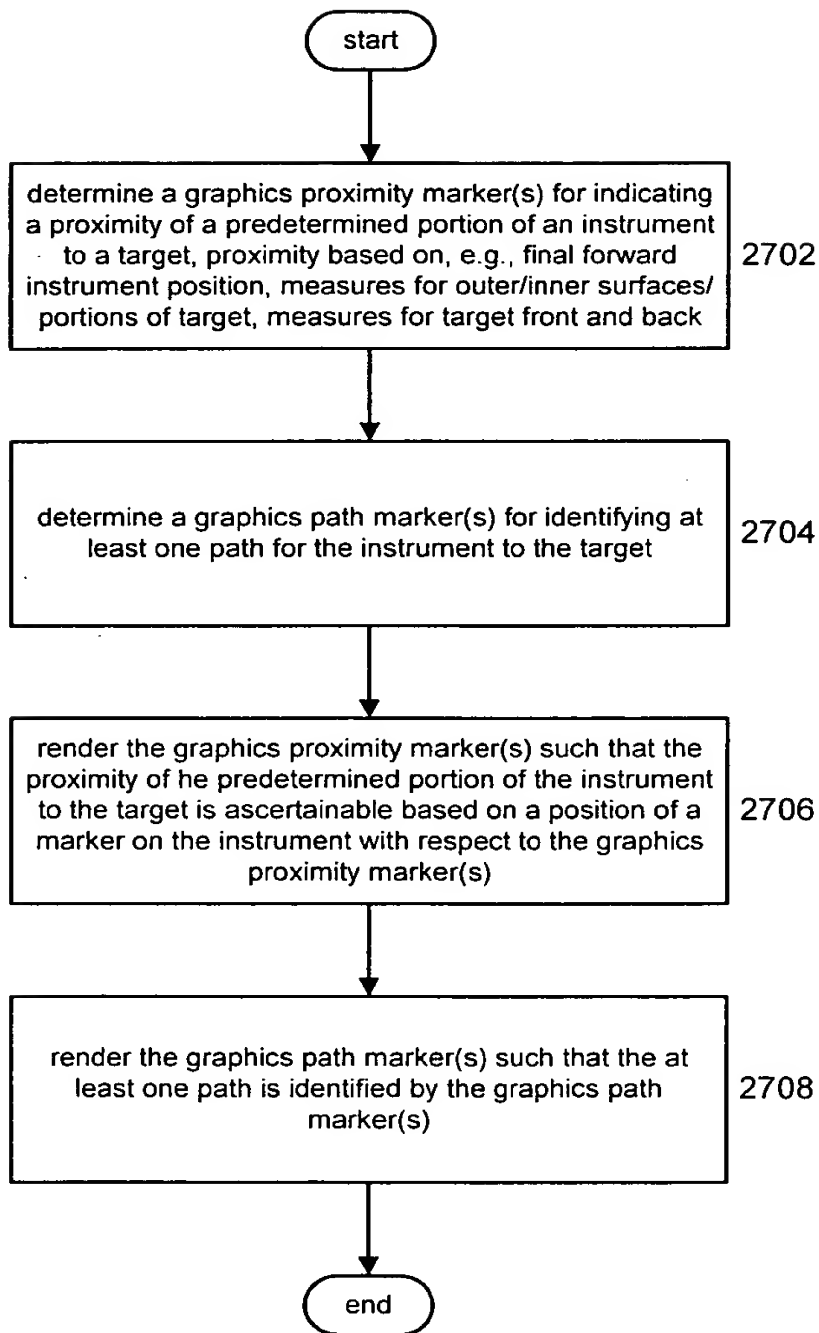


FIG. 27